



PATENT
Customer No. 22,852
Attorney Docket No. 08060.0002-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Carl M. ELAM) Group Art Unit: 3662
)
Application No.: 10/619,175) Examiner: Andrea, Brian K.
)
Filed: July 15, 2003)
)
For: REMOTE SENSING USING)
RAYLEIGH SIGNALING)

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

Copies of the documents listed on attached PTO 1449 form on page 1, including any copending patent applications, are attached herewith. Documents listed on PTO 1449 form on page 2 have been previously submitted in prior application 09/851,450, filed May 7, 2001, upon which Applicant relies for the benefits provided in 35 U.S.C.

§ 120. Further, Applicant provides a copy of the Office Actions from U.S. Patent Application No. 09/697,187 mailed July 16, 2003, and December 24, 2003.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: June 30, 2004

By: 
Kenneth M. Lesch
Reg. No. 44,868

INFORMATION DISCLOSURE CITATION

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Atty. Docket No.	08060.0002-01	Appln. No.	10/619,175
Applicant	Carl M. ELAM		
Filing Date	July 15, 2003	Group:	3662

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,592,490	Jan. 7, 1997	Barratt et al.			
	5,930,290	Jul. 27, 1999	Zhou et al.			
	6,031,485	Feb. 29, 2000	Cellai et al.			
	6,031,865	Feb. 29, 2000	Kelton et al.			
	6,097,714	Aug. 1, 2000	Nagatani et al.			
	6,163,564	Dec. 19, 2000	Rudish et al.			
	6,163,566	Dec. 19, 2000	Shiino et al.			
	6,240,122 B1	May 29, 2001	Miyashita			
	6,580,701 B1	June 17, 2003	Ylitalo et al.			
	2001/0047503 A1	Nov. 9, 2001	Zhang			

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
WO 98/37654	Aug. 27, 1998	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

S. Barbarossa, F. Cerquetti, "Simple Space-Time Coded SS-CDMA Systems Capable of Perfect MUI/ISI Elimination," IEEE Communications Letters, Vol. 5, No. 12, December 2001
U.S. Patent Application No. 10/354,093, filed January 30, 2003

Examiner

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

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U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,619,503	Apr. 8, 1997	Dent			
	5,793,798	Aug. 11, 1998	Rudish et al.			
	5,940,742	Aug. 17, 1999	Dent			
	6,023,514	Feb. 8, 2000	Strandberg			
	6,107,963	Aug. 22, 2000	Ohmi et al.			
	6,275,679 B1	Aug. 14, 2001	Elam et al.			

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Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
WO 93/12590	Jun. 24, 1993	PCT			Yes
EP 0893 703 A1	Jan. 27, 1999	EPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Chee Tiong Desmond NG, "Smart Antennas for Wireless Applications and Switched Beamforming," Dept. of Information Technology and Electrical Engineering, The University of Queensland, October 2001.
	D. Giuli et al; <i>Radar Target Scattering Matrix Measurement Through Orthogonal Signals</i> ; IEE Proceedings-F, Vol. 140, No. 4, pp. 233-242 (August 1993).
	Dr. Paul C. Chestnut et al., "Implementation of a Multiple Angle Estimator," September 23, 1983
	Chee Tiong Desmond NG, "Smart Antennas for Wireless Applications and Switched Beamforming," Electrical Engineering Thesis Project, http://innovexpo.itee.uq.edu.au/2001/projects/s804113 .
	U.S. Patent Application No. 09/697,187, filed October 27, 2000.
	Merrill Skolnik, <i>Radar Handbook</i> , Second Edition, pp. 2.16-2.23, McGraw Hill, 1990.

Examiner	Date Considered
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.